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AF	PLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	
	08/901.3	38 07/28/5	7 KEESMAN		G	PHB-33946A
-			LN11/1210	LN11/1210 ¬ E		
	LAURIE E GATHMAN U S PHILIPS CORPORATION	ION		RAO, A	• *	
	580 WHIT	E PLAINS ROA	D		ART UNIT	PAPER NUMBER
	TARRYTOW	N NY 10591		• .	2713	20

DATE MAILED:

12/10/97

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Application No. **08/901,138**

Applicant(s)

Keesman

Office Action Summary

Examiner

Anand Rao

Group Art Unit 2713



Responsive to communication(s) filed on <u>Jul 28, 1997</u>	<u> </u>					
☐ This action is FINAL .						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
A shortened statutory period for response to this action is set to expire 3 is longer, from the mailing date of this communication. Failure to respond within application to become abandoned. (35 U.S.C. § 133). Extensions of time may be 37 CFR 1.136(a).	the period for response will cause the					
Disposition of Claims						
X Claim(s) 1-12 and 14	is/are pending in the application.					
Of the above, claim(s)	is/are withdrawn from consideration.					
Claim(s)	is/are allowed.					
X Claim(s) 1-12 and 14	is/are rejected.					
☐ Claim(s)						
☐ Claims are subject t						
Application Papers						
☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-94	8.					
☐ The drawing(s) filed on is/are objected to by the Exam	niner.					
☑ The proposed drawing correction, filed on						
☐ The specification is objected to by the Examiner.						
\square The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. § 119						
Acknowledgement is made of a claim for foreign priority under 35 U.S.C. §	i 119(a)-(d).					
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents	ments have been					
☐ received.						
received in Application No. (Series Code/Serial Number)	·					
received in this national stage application from the International Bure	au (PCT Rule 17.2(a)).					
*Certified copies not received:						
☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C	. § 119(e).					
Attachment(s)	·					
☑ Notice of References Cited, PTO-892						
☐ Interview Summary, PTO-413						
□ Notice of Draftsperson's Patent Drawing Review, PTO-948						
☐ Notice of Informal Patent Application, PTO-152						
SEE OFFICE ACTION ON THE FOLLOWING PA	4GES					

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Part III DETAILED ACTION

Drawings

1. The formal drawings were received on 7/28/97. These drawings are approved by the Examiner.

Double Patenting

2. Claims 1, 5, and 12 are directed to an invention not patentably distinct from claim 3 of commonly assigned U.S. Patent 5,606,369.

Regarding claim 5, claim 3 of U.S. Patent 5,606,369 discloses a video signal apparatus operable to encode a digital video signal for transmission (U.S. Patent: claim 3, lines 1-3), the apparatus comprising: an encoder stage for encoding received video signal according to a predetermined coding scheme (U.S. Patent 5,606,369: claim 3, lines 5-8) and outputting the signal as a variable bit-rate data stream (U.S. Patent 5,606,369: claim 3, lines 15-17); a buffer coupled to receive said variable bit-rate data stream from the encoder and arranged to output a data signal for transmission (U.S. Patent 5,606,369: claim 3, lines 15-19); characterized by means operable to detect the bit rate of the variable bit-rate data stream (U.S. Patent 5,606,369: claim 3, lines), to derive a second bit-rate as a percentage of the encoder stage output bit-rate, which percentage changes in inverse relation to the changes of the encoder stage output rate (U.S. Patent 5,606,369: claim 3, lines 28-31), and to control the buffer output data signal bit rate at said second bit-rate (U.S. Patent 5,606,369: claim 3, lines 30-33), wherein said first and second bit-

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rates are variable (U.S. Patent 5,606,369: claim 3, lines), as in claim 5. The apparatus of claim 3 of U.S. Patent 5,606,369 has the additional element of the target setting means for the patent's encoding apparatus which has plural input channels, in contrast with the recited apparatus of the instant invention of claim 5. However, it would have been obvious for one of ordinary skill in the art to observe that the operation of the apparatus of claim 3 of U.S. Patent 5,606,369 in the presence of only a single encoder stage and single input channel would read on the apparatus of claim 5, because it is also uses the same output bit-rate determination means of the apparatus as in claim 5 (U.S. Patent 5,606,369: claim 3, lines 27-32), and reads on claim 5.

Regarding claims 1 and 12, it is noted that these claims are directed towards the method as implemented with the encoding stage, whereas the claim 3 of U.S. Patent 5,606,369 is concerned with the apparatus in which the method is implemented. However, it would have been obvious for one of ordinary skill in the art to extract the method executed by the apparatus of claim 3 of U.S. Patent 5,606,369, by associating each means of the claim 3 with an appropriate step in the method that would read on claims 1 and 12.

3. The non-statutory double patenting rejection, whether of the obviousness-type or non-obviousness-type, is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent. *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); and *In re Goodman*, 29 USPQ2d 2010 (Fed. Cir. 1993).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(b) and © may be used to overcome an actual or provisional rejection based on a non-statutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.78(d).

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1, 5, and 12 of the application are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 3 of U.S. Patent No. 5,606,369. Although the conflicting claims are not identical, they are not patentably distinct from each other.

Regarding claim 5, claim 3 of U.S. Patent 5,606,369 discloses a video signal apparatus operable to encode a digital video signal for transmission (U.S. Patent: claim 3, lines 1-3), the apparatus comprising: an encoder stage for encoding received video signal according to a predetermined coding scheme (U.S. Patent 5,606,369: claim 3, lines 5-8) and outputting the signal as a variable bit-rate data stream (U.S. Patent 5,606,369: claim 3, lines 15-17); a buffer coupled to receive said variable bit-rate data stream from the encoder and arranged to output a data signal for transmission (U.S. Patent 5,606,369: claim 3, lines 15-19); characterized by means operable to detect the bit rate of the variable bit-rate data stream (U.S. Patent 5,606,369: claim 3, lines), to derive a second bit-rate as a percentage of the encoder stage output bit-rate, which percentage changes in inverse relation to the changes of the encoder stage output rate (U.S. Patent 5,606,369: claim 3, lines 28-31), and to control the buffer output data signal bit rate at said second bit-rate (U.S. Patent 5,606,369: claim 3, lines 30-33), wherein said first and second bitrates are variable (U.S. Patent 5,606,369: claim 3, lines), as in claim 5. The apparatus of claim 3 of U.S. Patent 5,606,369 has the additional element of the target setting means for the patent's encoding apparatus which has plural input channels, in contrast with the recited apparatus of the instant invention of claim 5. However, it would have been obvious for one of ordinary skill in the

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art to observe that the operation of the apparatus of claim 3 of U.S. Patent 5,606,369 in the presence of only a single encoder stage and single input channel would read on the apparatus of claim 5, because it is also uses the same output bit-rate determination means of the apparatus as in claim 5 (U.S. Patent 5,606,369: claim 3, lines 27-32), and reads on claim 5.

Regarding claims 1 and 12, it is noted that these claims are directed towards the method as implemented with the encoding stage, whereas the claim 3 of U.S. Patent 5,606,369 is concerned with the apparatus in which the method is implemented. However, it would have been obvious for one of ordinary skill in the art to extract the method executed by the apparatus of claim 3 of U.S. Patent 5,606,369, by associating each means of the claim 3 with an appropriate step in the method that would read on claims 1 and 12.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 6. Claims 1-12 and 14 rejected under 35 U.S.C. § 102(e) as being anticipated by Egawa et al.

Egawa discloses a method of compression for transmission of an encoded digital video signal bit stream (Egawa: column 5, lines 25-30), comprising the steps of: detecting a first bit rate of the encoded digital video signal bit stream (Egawa: column 5, line 50-60); sequentially writing

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the encoded digital video signal bit stream into a buffer at said first bit rate (Egawa: column 5, lines 43-53); deriving a second bit rate as a percentage of the first bit rate, changes in which percentage are inversely related to changes in the first bit rate (Egawa: column 6, lines 20-30 & 63-68); and reading out the encoded digital video signal bit stream from the buffer at the second bit rate (Egawa: column 8, lines 4-37), wherein both the first and second bit rates are variable (Egawa: column 6, lines 4-6) in claim 1.

Regarding claim 2, Egawa discloses that the second bit rate can equal the first bit rate for a specified range of first bit rate values (Egawa: column 6, lines 20-48) as in the claim.

Regarding claim 5, Egawa discloses a video signal apparatus operable to encode a digital video signal for transmission, the apparatus comprising: an encoder stage (Egawa: column 5, lines 10-16) for encoding a received video signal according to a predetermined coding scheme (Egawa: column 5, lines 10-16) and outputting the signal as a variable bit-rate data stream (Egawa: column 6, lines 3-7); a buffer coupled to receive said variable bit-rate data stream from the encoder and arranged to output a data signal for transmission (Egawa: column 5, lines 20-39); characterized by means operable to detect the bit rate of the variable bit-rate data stream (Egawa: column 5, lines 35-60), to derive a second bit-rate as a percentage of the encoder stage output bit-rate, which percentage changes in inverse relation to the changes of the encoder stage output rate (Egawa: column 8, lines 5-35), and to control the buffer output data signal bit rate at said second bit-rate, wherein said first and second bit-rates are variable (Egawa: column 5, lines 1-5), as in claim 5.

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Regarding claims 3, 7, and 9, Egawa further discloses using a detected first bit-rate based on successive groupings of frames of input video signals for the derivation of the second bit-rate (Egawa: column 8, lines 4-17) as claimed.

Regarding claims 4 and 6, the Egawa apparatus has signals encoded according to the MPEG standard (Egawa: column 5, lines 6-20), as in the claims.

Regarding claim 8, the Egawa apparatus discloses using a detected first bit-rate based on successive groupings of frames of input video signals as explained above, is characterized in that the instantaneous bit rate of the signal is inversely related to the bit density of an image frame N frame periods later where N is determined by said bit density (Egawa: column 7, lines 15-61; column 8, lines 5-36) as in the claim.

Regarding claims 10-11, the Egawa method and apparatus discloses the deriving the second output bit-rate by changing the percentage of the first bit rate in response in response to changes in the first bit-rate so as to maintain a substantially constant fullness of the buffer (Egawa: column 6, lines 55-68; column 7, lines 1-47), as in the claims.

Egawa discloses a method of compressing for transmission of an encoded digital bit stream having a variable bit rate (Egawa: column 5, lines 5-20), comprising the steps of: detecting a first variable bit rate of the encoded digital bit stream (Egawa: column 5, lines 21-25); sequentially writing the encoded digital bit stream into a buffer at the detected current bit rate (Egawa: column 5, lines 24-29); reading the encoded digital bit stream out of the buffer at a buffer read rate (Egawa: column 5, lines 60-68; column 6, lines 1-28); and varying the buffer bit rate in such a manner as to maintain a substantially constant fullness level of the buffer in response

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to changes in the detected bit rate (Egawa: column 6, lines 49-68), wherein the buffer read bit rate

is a percentage of the detected current rate, which percentage varies inversely in relation to the

changes in the detected current bit rate (Egawa: column 8, lines 4-36), as in claim 12.

Regarding claim 14, Egawa discloses that a delay between the input and output buffer

varies as a function of the detected bit-rate (Egawa: column 7, lines 37-61), as specified.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Citta discloses a system for multiplexed transmission of compressed video and auxiliary

data. Kolczynski discloses a video signal processor including an input codeword buffer.

8. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Anand Rao whose telephone number is (703) 305-4813.

SUPERVISORY PATENT EXAMINER
GROUP 2010

AK.

November 26, 1997